PROGRAM PREVIEW

Tuesday, May 26

Opening Reception
5:00 – 7:00 PM
Location: Breck Deck North (outdoors)

Squire’s Lecture – Reproductive Physiology
Moderator: TBD
Location: Island Ballroom (Tarpon/Sawyer/Long Key)

7:00 PM   Welcome
7:15 PM   Prolactin in the horse: Historical perspective, actions and reactions, and its role in reproduction.
          Donald L. Thompson, Jr., Louisiana State University Agricultural Center, Baton Rouge, LA, USA.

Wednesday, May 27

“Society Stakes” 25-Furlong Fun Run/Walk
6:00 – 7:00 AM
Location: Meet at Cabana Hut on the beach

ORAL PRESENTATIONS & SYMPOSIA

Invited Speaker – Exercise Physiology
Moderator: TBD
Location: Island Ballroom (Tarpon/Sawyer/Long Key)

8:00 AM   Has the golden age of equine exercise physiology passed and if so, have we answered all the big questions?
          David Marlin, David Marlin Consulting Ltd., Bury St Edmunds, Suffolk, United Kingdom.

Exercise Physiology: Graduate Student Competition
Moderator: TBD
Location: Glades (Jacaranda Hall)

<table>
<thead>
<tr>
<th>ABSTRACT #</th>
<th>TIME</th>
<th>PRESENTATION TITLE</th>
<th>SPEAKERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>9:15 AM</td>
<td>Rider energy expenditure during high-intensity horseback activity.</td>
<td>C. L. O’Reilly*, D. H. Sigler, J. D. Fluckey, M. M. Vogelsang, J. E. Sawyer, Texas A&amp;M University, College Station, TX, USA.</td>
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<tr>
<td>22</td>
<td>9:30 AM</td>
<td>The effects of conjugated linoleic acid supplementation on lipoplyascharide-stimulated fibroblastic synoviocytes: A preliminary study.</td>
<td>A. A. Milican*, K. L. Vernon†, H. Walker-Dunn†, J. A. Coverdale‡, W. C. Bridges‡, †Clemson University, Clemson, SC, USA, ‡Texas A&amp;M University, College Station, TX, USA.</td>
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<tr>
<td>23</td>
<td>9:45 AM</td>
<td>Influence of whole-body vibration on bone density in the stalled horse.</td>
<td>E. S. Hulak*, H. S. Spooner, J. C. Haffner, Middle Tennessee State University, Murfreesboro, TN, USA.</td>
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<tr>
<td>Time</td>
<td>Abstract</td>
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<td>10:00 AM</td>
<td>The effect of chiropractic treatment on performance and behavior of lesson horses. J. A. Schultz¹, J. C. Haffner¹, M. S. Wooten², R. M. Hoffman¹, H. S. Spooner¹, Middle Tennessee State University, Murfreesboro, TN, USA, ¹Equine Performax Veterinary, Thompson’s Station, TN, USA.</td>
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<td>10:15 AM</td>
<td>The thermal effects of protective sports boots on the forelimb of Thoroughbred and Argentinian polo ponies. B. C. Snively*, J. E. Bowser, B. Nabors, R. L. Linford, Mississippi State University, Starkville, MS, USA.</td>
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<td>10:30 AM</td>
<td>Refreshment Break (Banyan Breezeway)</td>
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<tr>
<td>9:15 AM</td>
<td>Exogenous lactobacilli mitigate microbial changes associated with grain fermentation in vitro. B. E. Harlow*, L. M. Lawrence², I. A. Kagan¹, P. A. Harris³, M. D. Flythe¹, University of Kentucky, Lexington, KY, USA, ²USDA, Agricultural Research Service, Forage-Animal Production Research Unit, Lexington, KY, USA, ³Waltham Centre for Pet Nutrition, Melton Mowbray, Leicestershire, UK.</td>
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<td>10:00 AM</td>
<td>Magnesium aspartate supplementation and reaction speed response in horses. J. A. Dodd*, G. Doran¹, P. Harris², G. K. Noble³, Charles Sturt University, Wagga Wagga, NSW, Australia, ¹Waltham Centre for Pet Nutrition, Leicestershire, United Kingdom.</td>
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<td>10:15 AM</td>
<td>Comparison of inflammation, nutritional status, muscle mass, pituitary function, and age in geriatric horses. M. H. Siard*, A. Betancourt¹, P. A. Harris², A. D. Moffett³, K. E. McMurry³, S. E. Reedy¹, A. A. Adams³, University of Kentucky, Lexington, KY, USA, ²WALTHAM Centre for Pet Nutrition, Waltham on the Wolds, Leicestershire, United Kingdom, ³MARS Horsecare US, Inc, Dalton, OH, USA.</td>
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<td>9:15 AM</td>
<td>Dopaminergic (cabergoline) and antidopaminergic (sulpiride) effects on indices of insulin sensitivity in horses. N. A. Valencia*, D. L. Thompson, E. L. Oberhaus, Louisiana State University Agricultural Center, Baton Rouge, LA, USA.</td>
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<td>9:30 AM</td>
<td>The effects of a prostaglandin transport inhibitor (DIDS) on delaying diestrus in non-pregnant mares. K. M. Klohonatz*, L. C. Nulton, G. J. Bouma, J. E. Bruemmer, Colorado State University, Fort Collins, CO, USA.</td>
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<td>9:45 AM</td>
<td>Effects of prolonged dexamethasone treatment on signaling pathways associated with muscle protein degradation in mature horses. C. M. M. Loos*, T. Barnes³, K. M. Brennan³, K. L. Urschel³, University of Kentucky, Lexington, KY, USA, ³Alltech Inc, Nicholasville, KY, USA.</td>
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<tr>
<td>10:30 AM</td>
<td>Refreshment Break (Banyan Breezeway)</td>
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</tbody>
</table>
9:15 AM  1  The “pasture heaves” restricted lung transcriptome: A tool to decipher the pathophysiology of airway hyper-responsive diseases in the horse.
S. Mack*, L. A. Bright†, C. L. Hunter‖, M. A. Arrick†, S. Kumar†, A. Perkins†, A. Eddy†, A. Claude†, N. Mujahid†, M. Brashier‖, B. Nanduri‖, S. C. Burgess‖, C. E. Swiderski‖, Mississippi State University, Mississippi State, MS, USA.  

9:30 AM  2  “A sorrel is hot…” A genetic investigation of the horseman’s myth.
L. N. Jacobs*, E. A. Staiger†, J. D. Albright‡, S. A. Brooks§, Cornell University, Ithaca, NY, USA, University of Tenessee, Knoxville, TN, USA, University of Florida, Gainesville, FL, USA.  

9:45 AM  3  Genetic investigation of limbal squamous cell carcinoma in Haflinger horses.
J. Liu*, M. Lassaline†, S. Romero de Mello Sa‡, M. Huynh§, R. Seferian§, R. Bellone§, University of California-Davis, Davis, CA, USA, University of Tampa, Tampa, FL, USA.  

10:00 AM  4  Fecal fatty acids in yearlings fed diets differing in carbohydrate fractions.
D. Oliver*, K. Norris, M. Baldin, K. Harvatine, W. B. Stanley, The Pennsylvania State University, University Park, PA, USA.  

10:15 AM  5  Seasonal effects on pasture and a group of mares with metabolic syndrome.
S. Lapinskas*, J. Rayner†, J. Callaham, S. A. Brooks, University of Florida, Gainesville, FL, USA.  

10:30 AM  Refreshment Break (Banyan Breezeway)  

11:00 AM  34  Differential circulating microRNA profile in insulin-sensitive vs. insulin-resistant mares.
H. F. da Costa Santos*, T. Mask†, R. K. Splan†, T. M. Hess†, J. E. Brummer†, Colorado State University, Fort Collins, CO, USA, Virginia Tech Middleburg Agricultural Research and Extension Center, Virginia Tech, Middleburg, VA, USA.  

11:15 AM  35  Preliminary investigation of phenotyping methods for response to a sudden novel stimulus in the horse.

11:30 AM  36  The DMRT3 “Gait keeper” mutation affects harness racing performance and riding traits in Finnhorses.
K. Jäderkvist*, L. Johansson†, A. Mykkänen†, M. Mäenpää‖, S. L. Andersson†, L. Andersson‡, T. Arnason‖, G. Lindgren‖, Swedish University of Agricultural Sciences, Uppsala, Sweden, University of Helsinki, Helsinki, Finland, Suomen Hippos ry, Espoo, Finland, Uppsala University, Uppsala, Sweden, IHBC AB, Knubbo, Morgongåva, Sweden.  

11:00 AM  43  Influence of oat β-glucan on neutrophil function and lymphocyte subsets in response to stress.

11:15 AM  44  Evaluation of conjugated linoleic acid supplementation on markers of joint inflammation and cartilage metabolism in young horses challenged with lipopolysaccharide (LPS).
A. N. Bradbery*, J. A. Coverdale†, K. L. Vernon†, J. L. Leatherwood†, C. E. Arnold†, R. A. Dabareiner†, M. K. Kahn†, A. A. Millican§, T. H. Welsh§, S. B. Smith‖, Texas A&M University, College Station, TX, USA, Clemson University, Clemson, SC, USA, Sam Houston State University, Huntsville, TX, USA.  

11:30 AM  45  Using the indicator amino acid oxidation technique to study threonine requirements in horses.
C. H. Mok*, T. Brewster-Barnes, K. L. Urschel, University of Kentucky, Lexington, KY, USA.
Postprandial changes in plasma urea nitrogen concentrations in response to amino acid supplementation in horses.
C. M. Latham*, T. Brewster-Barnes, K. L. Urschel, A. L. Wagner, University of Kentucky, Lexington, KY, USA, Cooperative Research Farms, Richmond, VA, USA.

Production & Management: Graduate Student Competition (2)
Moderators: TBD
Location: Sabal (Jacaranda Hall)

Abstract #

11:00 AM 85 Effects of rotational versus continuous grazing on horse condition and plant performance.
L. B. Kenny*, A. O. Burk, C. A. Williams, Rutgers, the State University of New Jersey, New Brunswick, NJ, USA, University of Maryand, College Park, MD, USA.

11:15 AM 86 Forage nutritive value, yield, and preference of warm season grasses grazed by horses in the upper Midwest.

11:30 AM 87 Influence of forage type on rate of intake, mastication and saliva production.

11:45 AM 88 Supplement use and perceptions: A survey of US horse owners.
N. K. Swirsley*, H. S. Spooner, R. M. Hoffman, Middle Tennessee State University, Murfreesboro, TN, USA.

Undergraduate Student Competition (2)
Moderators: TBD
Location: Jasmine (Jacaranda Hall)

Abstract #

11:00 AM 6 The effect of fat supplementation on behavior and glycemic response in horses.
K. E. Martin*, R. M. Hoffman, H. S. Spooner, Middle Tennessee State University, Murfreesboro, TN, USA.

11:15 AM 7 Effects of rotational grazing on water-soluble carbohydrate and energy content of horse pastures.
A. D. Daniel*, B. J. McIntosh, J. D. Plunk, M. Webb, D. McIntosh, A. G. Parks, University of Tennessee, Knoxville, TN, USA, Virginia Polytechnic Institute and State University, Blacksburg, VA, USA.

11:30 AM 8 The effects of rotational grazing on forage biomass yield and botanical composition of horse pastures.
A. M. Virostek, B. McIntosh, A. Daniel, M. Webb, J. D. Plunk, University of Tennessee, Knoxville, TN, USA, Virginia Polytechnic Institute and State University, Blacksburg, VA, USA.

11:45 AM 9 An investigation into miRNAs in the equine epididymis as a potential regulators of spermatozoal maturation.
A. D. Belk, K. M. Klohonatz, G. J. Bouma, J. E. Bruemmer, Colorado State University, Fort Collins, CO, USA.

Invited Speaker Luncheon – Nutrition
Moderator: TBD
Location: Island Ballroom (Tarpon/Sawyer/Long Key)

12:00 PM Buffet Lunch Service begins

12:30 PM Feeding wild animals, including the horse’s exotic relatives.
Eduardo Valdes, Disney’s Animal Kingdom, Animal Nutrition Center, Lake Buena Vista, FL, USA.

Nutrition: Graduate Student Competition (3)
Moderators: TBD
Location: Tarpon Key (Island Ballroom)

Abstract #

1:45 PM 47 Effects of transitioning from a fescue hay diet to a spring fescue pasture diet on plasma fructosamine, body weights, and body condition scores of stock horse mares.
P. A. Montgomery*, C. E. Anderson, E. Grey, L. Brown, Western Kentucky University, Bowling Green, KY, USA.
2:00 PM 48 Effect of dietary chromium propionate on plasma C-peptide concentrations of Quarter Horse geldings. E. W. Goertzen*, K. E. Lloyd, J. W. Spears, P. M. Siciliano, S. E. Pratt-Phillips, North Carolina State University, Raleigh, NC, USA.


2:30 PM 50 Comparative digestibility of dry matter, protein, and fiber between the horse and black rhinoceros. K. E. Sullivan*, S. R. Lavin, S. E. Livingston, M. Knutson, E. V. Valdes, L. K. Warren. Disney’s Animal Kingdom, Lake Buena Vista, FL, USA, University of Florida, Gainesville, FL, USA.


3:00 PM 52 Digestible energy intakes of thirty-five horses over a 42-d period. J. C. Gill*, K. E. Lloyd, M. A. Hastings, P. D. Siciliano, S. E. Pratt-Phillips, North Carolina State University, Raleigh, NC, USA.


3:30 PM Refreshment Break (Banyan Breezeway)

Production & Management: Graduate Student Competition (3)  
Moderators: TBD  
Location: Sabal (Jacaranda Hall)  
ABSTRACT #

1:45 PM 89 A survey of anthelmintic methods for horses used in trail riding or ranch horse competitions. C. O’Hara*, G. W. Webb, H. L. Brady, E. L. Walker, S. Sacra, Missouri State University, Springfield, MO, USA, Texas Tech University, Lubbock, TX, USA.

2:00 PM 90 Exhibitors’ perception of management, training, and competition practices effects on horse welfare. M. Voigt*, K. Waite, A. Borron, K. Hiney, C. Brady. Purdue University, West Lafayette, IN, USA, Michigan State University, East Lansing, MI, USA, University of Georgia, Athens, GA, USA, Oklahoma State University, Stillwater, OK, USA.

2:15 PM 91 Effects of GastroTech on equine gastric ulcer syndrome (EGUS). A. L. Conover*, A. M. Shultz, A. L. Wagner, P. M. Graham-Thiers, C. A. Shea Porr, Murray State University, Murray, KY, USA, Cooperative Research Farms, Richmond, VA, USA, Emory & Henry College, Emory, VA, USA.

2:30 PM 92 A preliminary study examining the digital cushion in horses. M. A. Gunkelman*, C. J. Hammer, North Dakota State University, Fargo, ND, USA.

2:45 PM 93 Relationship of ocular and rectal temperatures as indicators of health status in horses. H. C. Collins, J. L. Leatherwood, M. J. Anderson, M. M. Beverly, F. X. Yildiz, N. L. Walker, K. B. Pritchett, Sam Houston State University, Huntsville, TX, USA, Louisiana State University, Baton Rouge, LA, USA.


3:15 PM 95 Estimation of forces generated by a jockey using the padded whip in a routine jump out. J. A. Dodd*, G. K. Noble, P. K. Knight, Charles Sturt University, Wagga Wagga, NSW, Australia, University of Sydney, Sydney, NSW, Australia.

3:30 PM Refreshment Break (Banyan Breezeway)
### Reproductive Physiology: Graduate Student Competition (1)

**Moderators:** TBD  
**Location:** Glades (Jacaranda Hall)

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<th>Time</th>
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<th>Title</th>
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<tr>
<td>1:45 PM</td>
<td>126</td>
<td>The presence of focal adhesion molecules in equine endometrium during maternal recognition of pregnancy.</td>
<td>K. M. Klohonatz*, G. J. Bouma, J. E. Bruemmer, Colorado State University, Fort Collins, CO, USA.</td>
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<tr>
<td>2:00 PM</td>
<td>127</td>
<td>Use of intravaginal triptorelin gel for ovulation induction in mares.</td>
<td>C. D. Sinclair*, J. M. Kourba*, L. W. Murray*, T. L. Douthit*, D. M. Greiger*, S. K. Weibel*, Kansas State University, Manhattan, KS, USA, JBS United, Sheridan, IN, USA.</td>
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<tr>
<td>2:45 PM</td>
<td>130</td>
<td>Effect of dietary omega-3 supplementation on equine endometrial and embryonic gene expression.</td>
<td>R. D. Jacobs*, A. D. Ealy*, P. M. Pennington, B. Pukazhenthil, L. K. Warren, A. L. Wagner, A. K. Johnson, T. M. Hess, R. K. Splan, Virginia Polytechnic Institute and State University, Blacksburg, VA, USA, Smithsonian Conservation Biology Institute, Front Royal, VA, USA, George Mason University, Fairfax, VA, USA, University of Florida, Gainesville, FL, USA, Cooperative Research Farms, Richmond, VA, USA, Auburn University, Auburn, AL, USA, Colorado State University, Fort Collins, CO, USA, Virginia Tech MARE Center, Middleburg, VA, USA.</td>
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<tr>
<td>3:00 PM</td>
<td>131</td>
<td>Effect of docosahexaenoic acid supplementation on corpus luteum perfusion at day seven post-ovulation.</td>
<td>R. L. Piersanti*, A. M. Adkin, L. K. Warren, C. J. Mortensen, University of Florida, Gainesville, FL, USA.</td>
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<td>3:30 PM</td>
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<td>Refreshment Break (Banyan Breezeway)</td>
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### Undergraduate Student Competition (3)

**Moderators:** TBD  
**Location:** Jasmine (Jacaranda Hall)

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<tr>
<td>2:15 PM</td>
<td>12</td>
<td>Effects of horse age and feeding status on AMPK activation in horses.</td>
<td>S. E. Sivinski*, A. L. Wagner, S. L. Tanner, T. Brewster-Barnes, K. L. Urschel, University of Kentucky, Lexington, KY, USA.</td>
</tr>
<tr>
<td>2:30 PM</td>
<td>13</td>
<td>Tumor necrosis factor-α gene expression before and after exercise in middle-aged and older horses.</td>
<td>M. M. Darby*, S. R. Malone, D. W. Horohov, D. E. Chappell, Morehead State University, Morehead, KY, USA, University of Kentucky, Lexington, KY, USA.</td>
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<tr>
<td>2:45 PM</td>
<td>14</td>
<td>Weight load does not affect equine stress as measured by heart rate, salivary cortisol, and behavior.</td>
<td>M. M. Ernst*, L. R. Hamm, M. L. Santiago, C. A. Shea Porr, Murray State University, Murray, KY, USA.</td>
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</table>
3:00 PM 15  The effects of interval versus continuous conditioning on physiological and kinematic parameters of equine fitness.
L. M. Taylor*, K. J. Duberstein, K. K. Turner, University of Georgia, Athens, GA, USA.

3:15 PM 16  Wearable biometric sensors for horses and rider-centered interface.
R. E. LeRoy*1, Z. Cochran2, A. G. Foster3, J. A. Wilson3, 1Berry College, Mount Berry, GA, USA, 2Georgia Institute of Technology, Atlanta, GA, USA.

3:30 PM  Refreshment Break  (Banyan Breezeway)

Production & Management: Graduate Student Competition (4)
Moderators: TBD  Location: Sabal (Jacaranda Hall)

ABSTRACT #
4:00 PM 96  Effects of dietary calcium level and source on environmentally relevant phosphorus excretion in horses.
L. A. Skurupey*1, C. M. Latham1, P. A. Harris2, L. K. Warren1, 1University of Florida, Gainesville, FL, USA, 2WALTHAM Centre for Pet Nutrition, Melton Mowbray, Leicestershire, UK.

4:15 PM 97  Effect of inulin chain length on fermentation by equine fecal bacteria and Streptococcus bovis in vitro.
B. E. Harlow*1, L. M. Lawrence1, I. A. Kagan2,1, M. D. Flythe2,1, 1University of Kentucky, Lexington, KY, USA, 2USDA, Agricultural Research Service, Forage-Animal Production Research Unit, Lexington, KY, USA.

4:30 PM 98  The effect of dry versus soaked hay on glycemic response in horses.
J. L. Collins*, R. M. Hoffman, H. S. Spooner, Middle Tennessee State University, Murfreesboro, TN, USA.

4:45 PM 99  Characterization of lipid and inflammatory profiles in horses with equine metabolic syndrome.
S. E. Elzinga*, P. L. Wood2, A. A. Adams1, 1University of Kentucky, Lexington, KY, USA, 2Lincoln Memorial University, Harrogate, TN, USA.

Reproductive Physiology: Graduate Student Competition (2)
Moderators: TBD  Location: Glades (Jacaranda Hall)

ABSTRACT #
4:00 PM 133  Differential miRNA expression from sperm obtained in the different regions of the stallion epididymis.

4:15 PM 134  L-Carnitine and pyruvate inclusion in diluents for cold-stored stallion spermatozoa.
D. S. Potter*, G. W. Webb, B. Onyango, T. Northcutt, Missouri State University, Springfield, MO, USA.

4:30 PM 135  Effect of hydrogen peroxide and heat stress on stallion sperm function.

Teaching & Extension: Graduate Student Competition
Moderator: TBD  Location: Tarpon Key (Jacaranda Hall)

ABSTRACT #
4:00 PM 146  Differing levels of experience and education affect learners’ changes in knowledge and skills.
M. L. Bedron*, M. L. Santiago, C. A. Shea Porr, Murray State University, Murray, KY, USA.

4:15 PM 147  Assessing the effect of an equine training course on the knowledge and practical skill acquisition of incoming freshman.
T. K. Taylor*, S. R. Cooper, K. M. Hiney, Oklahoma State University, Stillwater, OK, USA.

4:30 PM 148  Information-seeking behavior of the horse competition industry: A demographic study.
E. A. Lofgren*, M. A. Voigt, C. M. Brady, Purdue University, West Lafayette, IN, USA.

4:45 PM 149  Effectiveness of eXtension online webinars as educational tools for current horse industry issues.
K. E. Pulec*, K. P. Anderson1, C. Skelly2, C. M. Brady3, B. J. McIntosh6, G. A. Shelle4, A. Griffin5, E. A. Greene6, 1University of Nebraska, Lincoln, NE, USA, 2Michigan State University, East Lansing, MI, USA, 3Purdue University, West Lafayette, IN, USA, 4eXtension, Lexington, KY, USA, 5University of Vermont, Burlington, VT, USA, 6Virginia Tech, Middleburg, VA, USA.
ABSTRACT #

4:00 PM 17  Demographics, body condition scores, and owner bodyweight estimations of adult draft and warmblood horse breeds.
A. M. Hansen*, D. N. Catalano1, R. J. Coleman2, M. R. Hathaway1, M. E. McCue1, A. K. Rendahl1, K. L. Martinson1, 1University of Minnesota, St. Paul, MN, USA, 2University of Kentucky, Lexington, KY, USA.

4:15 PM 18  Effect of different blanket weights on surface temperature of horses in cold environments.
C. S. Slaubaugh* and C. J. Hammer, North Dakota State University, Fargo, ND, USA.

4:30 PM 19  Effects of ivermectin and moxidectin on equine parasites in horses in western Kentucky.
L. R. Hamm*, M. M. Ernst, M. L. Santiago, C. A. Shea Porr, Murray State University, Murray, KY, USA.

4:45 PM 20  Efficacy of Carica papaya seeds for reducing equine strongyle fecal egg counts.
S. Samuels*, N. Heskett, S. Burk, Otterbein University, Westerville, OH, USA.

WORKSHOP

5:15 – 6:45 PM  The internet of things: Using innovation to enhance teaching and extension.
Leaders: Karen L. Waite, Colleen Brady, Kathy Anderson, and Craig Wood
Location: Island Ballroom (Tarpon/Sawyer/Long Key)

OTHER ACTIVITIES

Gator Growl Dinner
7:00 – 9:00 PM
Location: Garden Courtyard (outdoors)

Thursday, May 28

Invited Speaker – Genetics
Moderator: TBD
Location: Island Ballroom (Tarpon/Sawyer/Long Key)

8:00 AM  Genetics After TWILIGHT.
Ernie Bailey, Gluck Equine Research Center, University of Kentucky, Lexington, KY, USA.

POSTER PRESENTATIONS

All posters will be located in the Banyan Breezeway. Posters need to be in place by 10:00 AM on Wednesday May 27. Posters should remain in place until Friday May 29 at 5:00 PM. An author must be present at the poster during its section’s designated poster session.

9:00 – 9:30 AM  Refreshment Break
9:00 – 10:30 AM  Poster Session #1 (Exercise Physiology, Genetics, Nutrition, and Reproductive Physiology)

Exercise Physiology: Posters
Chair: Tanja Hess
Location: Banyan Breezeway

ABSTRACT #

29  Attitude and behavior of veterinarians surrounding the use of complementary and alternative veterinary medicine (CAVM) in the treatment of equine musculoskeletal pain.
A. E. Bergenstrahle*, B. D. Nielsen2, 1University of Edinburgh, Edinburgh, Scotland, 2Michigan State University, East Lansing, MI, USA.
30 Post-exercise dietary supplementation leads to improved muscle recovery in fatigued horses.
R. D. Jacobs*1, R. K. Splan1,2, K. L. Urschel3, S. Mastellar4, A. L. Wagner5, 1Virginia Tech, Blacksburg, VA, USA,
2Virginia Tech Middleburg Agricultural Research and Extension Center, Middleburg, VA, USA, 3University of
Kentucky, Lexington, KY, USA, 4South Dakota State University, Brookings, SD, USA, 5Cooperative Research
Farms, Richmond, VA, USA.

31 Double suspension gallop in the Thoroughbred race horse—A pilot study.

32 An assessment of gait symmetry at the trot in non-loaded horses compared with symmetrical and
asymmetrical load distribution.
K. J. Duberstein*, S. Lalvani, L. Cobb, H. Newman, University of Georgia, Athens, GA, USA.

33 Stride variables of the intermediate stepping gaits of the Choctaw horse.
M. Nicodemus*1, J. Beranger2, 1Mississippi State University, Mississippi State, MS, USA, 2Livestock
Conservancy, Pittsboro, NC, USA.

**Nutrition: Posters**

Chair: Amy Burk
Location: Banyan Breezeway

**ABSTRACT #**

65 Effect of storage time and temperature of equine feces on the subsequent enumeration of lactobacilli and
cellulolytic bacteria.
B. E. Harlow*1, L. M. Lawrence1, M. D. Flythe2,1, 1University of Kentucky, Lexington, KY, USA, 2USDA,
Agricultural Research Service, Forage-Animal Production Research Unit, Lexington, KY, USA.

66 Changes in fecal lactobacilli after a concentrate meal.
M. B. Pyles*1, L. M. Lawrence1, M. D. Flythe2,1, 1University of Kentucky, Lexington, KY, USA, 2United States
Department of Agriculture, ARS-FAPRU, Lexington, KY, USA.

67 Influence of maternal dietary yeast supplementation on the diversity of hindgut microbial populations of
Quarter Horse mares and their offspring.
E. R. Share, K. Barnhart, J. M. Reddish, K. Cole*, The Ohio State University, Columbus, OH, USA.

68 Supplementation with Lactobacillus acidophilus influences microbial diversity in the gastrointestinal tracts
of healthy horses.
K. Barnhart, J. M. Reddish, K. Cole*, The Ohio State University, Columbus, OH, USA.

69 Influence of probiotic supplementation on microbial diversity in the gastrointestinal tract of Miniature
Horses.
K. Barnhart, J. M. Reddish, K. Cole*, The Ohio State University, Columbus, OH, USA.

70 Dietary energy influences on water intake and fecal and urine outputs in mature horses.
M. J. Williams*, E. R. Share, K. L. Barnhart, K. Cole, The Ohio State University, Columbus, OH, USA.

71 Effects of the novel feed additive Phytozen on immune and endocrine function in senior horses.
M. H. Siard*, A. L. Wagner, B. Médina, I. D. Girard, A. A. Adams, University of Kentucky, Saint-Hyacinthe,
Quebec, Canada.

72 Immunoglobulin subclasses in colostrum and plasma of Quarter Horse mares and foals fed diets with or
without added probiotics.
A. Sutton, A. Moffett, W. B. Stanier*, P. Harris, The Pennsylvania State University, Waltham on the Wolds,
Leicestershire, UK.

73 Crude protein from forage correlates with nitrogen retention and nitrogen status in adult horses.
P. M. Graham-Thiers*, L. K. Bowen, Emory & Henry College, Emory, VA, USA.

74 Novel method for determining the ideal amino acid profile for a growing horse’s ration.
M. Schultz*, K. Martinson, C. Ward, M. Pampusch, M. Hathaway, University of Minnesota, St. Paul, MN, USA.

75 A technique for collecting ileal digesta through cecal cannulas in the equine.
T. K. Dove*, J. M. Lattimer, W. L. Beard, E. A. Taylor, T. L. Douthit, Kansas State University, Manhattan, KS,
USA.

76 Validation of a human double-antibody radioimmunoassay kit for measuring equine C-peptide.
E. W. Goertzen*, K. E. Lloyd, J. W. Spears, P. M. Siciliano, S. E. Pratt-Phillips, North Carolina State University,
Raleigh, NC, USA.

77 Influence of bioactive proteins in varying doses on gait kinematics in mature horses.
J. A. Coverdale*1, J. M. Campbell2, 1Texas A&M University, College Station, TX, USA, 2APC Inc, Ankeny, IA,
USA.
Influence of omega-3 polyunsaturated fatty acid supplementation on plasma prostaglandin E2 production in young exercising horses.

Feeding free-choice hay to starving horses.
T. M. Hess*, C. Wilkins, H. F. Santos, Colorado State University, Fort Collins, CO, USA.

Genetics: Posters
Chair: Rebecca Splan
Location: Banyan Breezeway

Abstract #

37 Genome-wide association study of Shivers.
J. L. Petersen*, C. J. Finno, S. J. Valberg, 1University of Nebraska, Lincoln, NE, USA, 2University of California, Davis, CA, USA, 3University of Minnesota, St. Paul, MN, USA.

Reproductive Physiology: Posters
Chair: Heidi Brady
Location: Banyan Breezeway

Abstract #

140 Effects of resveratrol on post-thaw quality of stallion sperm.
K. Matheny, R. Hopper, H. King, E. Memili, M. Nicodemus*, Mississippi State University, Mississippi State, MS, USA.

141 Prolactin secretion in estrogen-primed geldings: Effect of dose and site of injection of sulpiride in a vegetable shortening vehicle.
D. L. Thompson*, E. L. Oberhaus, J. C. Ferreira, N. A. Valencia, 1Louisiana State University Agricultural Center, Baton Rouge, LA, USA, 2School of Veterinary Medicine and Animal Science, UNESP, Botucatu, SP, Brazil.

142 Factors affecting basal and post-exercise prolactin secretion in horses.

143 Influence of dietary oil source on reproductive parameters in mares.
C. M. Crain, C. J. Haffner, R. M. Hoffman, H. S. Spooner, Middle Tennessee State University, Murfreesboro, TN, USA, 2Fort Scott Community College, Fort Scott, KS, USA.

144 Transvaginal ultrasound-guided biopsy as a tool for evaluation of corpora lutea in mares.
J. C. Ferreira, D. L. Thompson, Y. L. Boakari, R. F. Lima, R. Schmith, C. Meira, School of Veterinary Medicine and Animal Science, UNESP, Botucatu, Sao Paulo, Brazil, 2Louisiana State University Agricultural Center, Baton Rouge, LA, USA, 3Biosciences Institute, UNESP, Botucatu, Sao Paulo, Brazil.

145 Progesterone-releasing intravaginal device in conjunction with estradiol benzoate induces follicular regression in mares.
J. C. Ferreira, D. L. Thompson, A. Boo, School of Veterinary Medicine and Animal Science, UNESP, Botucatu, SP, Brazil, 1Louisiana State University Agricultural Center, Baton Rouge, LA, USA, 2Agua JM Horse Farm, Tijucas do Sul, PR, Brazil.

Workshops

11:00AM – 12:30PM Undergraduate program assessment and accreditation – Building a collaborative peer based model.
Leaders: Karin Bump, Laurie Lawrence, Michael Fugaro, and Bob Coleman
Location: Sabal (Jacaranda Hall)

11:00AM – 12:30PM Determining equine digestibility coefficients – Can we define criteria for a standardized research protocol?
Leaders: David van Doorn and Femke Schaafstra
Location: Jasmine (Jacaranda Hall)

12:30 – 2:00PM Lunch on your own
2:00 – 3:30PM  **Equitation science & learning theory – A strategic approach to enhancing equine behavior and welfare curriculum.**  
Leaders: Camie Heleski, Colleen Brady, Betsy Greene, Katrina Merkies, Karen Waite, and Carissa Wickens  
Location: Sabal (Jacaranda Hall)

2:00 – 3:30PM  **Tips for reappointment, promotion, and tenure.**  
Leaders: Amy Burk, Laurie Lawrence, and Karin Bump  
Location: Jasmine (Jacaranda Hall)

**OTHER ACTIVITIES**

**Student Social**  
Chair: Brittany Harlow  
7:00 – 9:00 PM  
Location: Breck Beach (outdoors, in front of Breck Deck North)

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**Friday, May 29**

**ORAL PRESENTATIONS & SYMPOSIA**

**Invited Speaker – Teaching & Extension**  
Moderator: TBD  
Location: Island Ballroom (Tarpon/Sawyer/Long Key)

8:00 AM  **Donkeys are Different.**  
Alex Thiemann, *The Donkey Sanctuary, Sidmouth, Devon, United Kingdom*

**Nutrition: General Session (1)**  
Moderator: TBD  
Location: Sabal (Jacaranda Hall)

<table>
<thead>
<tr>
<th>ABSTRACT #</th>
<th>Title</th>
<th>Authors</th>
<th>Location</th>
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<tr>
<td>10:00 AM</td>
<td>Evaluation of apparent total tract digestibility and glycemic responses to processed corn in non-exercised Thoroughbred horses.</td>
<td>C. Whitehouse, J. D. Pagan, R. J. Coleman, B. Waldridge, O. L. Yates, S. W. Garling, Kentucky Equine Research, Versailles, KY, USA, University of Kentucky, Lexington, KY, USA.</td>
<td>Sabal</td>
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<tr>
<td>10:30 AM</td>
<td>Refreshment Break (Banyan Breezeway)</td>
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Reproductive Physiology: General Session
Moderator: TBD
Location: Jasmine (Jacaranda Hall)

ABSTRACT #
9:15 AM 136  Peripartum maternal DHA/EPA supplementation and the effect on mare reproductive parameters and foal bone metabolism.
S. E. Buist1,2, J. M. Kouba2, J. D. Lillich2, C. A. Blevins3, D. G. Grieger2, J. Stevenson5, S. Webel3, 1The Pennsylvania State University, University Park, PA, USA, 2Kansas State University, Manhattan, KS, USA, 3JBS United, Sheridan, IN, USA.

9:30 AM 137  Determination of peripheral progestin concentrations in the late pregnant mare based upon immunoassays and liquid chromatography-tandem mass spectrometry.
M. A. A. Wynn1, E. L. Legacki2, A. J. Conley2, S. A. Loux1, A. Esteller-Vico1, S. D. Stanley2, E. L. Squires1, M. H. T. Troedsson1, B. A. Ball1, 1University of Kentucky, Lexington, KY, USA, 2University of California, Davis, CA, USA.

9:45 AM 138  Characterization of partial luteolysis in mares.
J. C. Ferreira1,2, D. L. Thompson2, Y. L. Boakari1, H. S. Canesin1, L. F. Novaes Filho1, C. Meira1, 1School of Veterinary Medicine and Animal Science, UNESP, Botucatu, SP, Brazil, 2Louisiana State University Agricultural Center, Baton Rouge, LA, USA.

10:00 AM 139  Non-targeted lipidomics of stallion spermatozoa: Effect of dietary docosahexaenoic acid (DHA).
P. L. Wood1, K. E. Scoggin2, B. A. Ball1, L. M. Lawrence3, M. H. Troedsson1, L. D. Goedde2, K. M. Brennan1, E. L. Squires*1,2, 1Lincoln Memorial University, Harrogate, TN, USA, 2University of Kentucky, Lexington, KY, USA, 3Center for Animal Nutrigenomics and Applied Animal Nutrition, Alltech Inc, Nicholasville, KY, USA.

Teaching & Extension: General Session (1)
Moderator: TBD
Location: Glades (Jacaranda Hall)

ABSTRACT #
9:15 AM 150  Effectiveness of extension training for law enforcement officials responding to equine calls.
K. P. Anderson*1, G. Stauffer1, M. Stauffer1, D. Anderson1, K. Biodrowski2, 1University of Nebraska, Lincoln, NE, USA, 2Nebraska Humane Society, Omaha, NE, USA.

9:30 AM 151  State-level industry study to determine equine policy and program priorities.
K. D. Bump*1,2, T. S. Williams1,2, 1Cazenovia College, Cazenovia, NY, USA, 2CJC Adventures, Cazenovia, NY, USA.

9:45 AM 152  Prevention of horse-related injuries: Where education efforts should be focused.
F. C. Camargo*1, W. R. Gombeski1, P. Barger1, C. Jehlick1, H. Wiemers1, J. Mead1, K. A. Lawyer1, 1University of Kentucky, Lexington, KY, USA, 2United States Pony Clubs, Lexington, KY, USA, 3Certified Horsemanship Association, Lexington, KY, USA.

10:00 AM 153  Creating and validating a survey to assess sportsmanship among horse show participants.
K. L. Waite*, C. Heleski, M. Ewing, Michigan State University, East Lansing, MI, USA.

C. M. Brady*1, A. E. Harris1, D. J. Hagstrom2, 1Purdue University, West Lafayette, IN, USA, 2University of Illinois, Urbana, IL, USA.

10:30 AM  Refreshment Break  (Banyan Breezeway)

Nutrition: General Session (2)
Moderator: TBD
Location: Sabal (Jacaranda Hall)

ABSTRACT #
11:00 AM 59  Extent of vitamin K absorption from the equine hindgut.
J. E. Skinner*1, A. J. Cawdell-Smith1, H. L. Regtop2, A. M. Talbot2, J. R. Biffin2, W. L. Bryden1, 1Equine Research Unit, The University of Queensland, Gatton, Queensland, Australia, 2Agriculture Pty Ltd, Braemar, New South Wales, Australia.

11:15 AM 60  Oral magnesium supplementation alters blood and urine electrolyte concentrations in horses.
J. A. Dodd*1, G. Doran1, P. Harris2, G. K. Noble3, 1Charles Sturt University, Wagga Wagga, NSW, Australia, 2WALTHAM Centre for Pet Nutrition, Leicestershire, United Kingdom.
11:30 AM  61  Effects of exercise and selenium on antioxidant status and mitochondrial function in young, pleasure-trained horses.

11:45 AM  62  Feeding practices and nutrient intakes among elite show jumpers.
S. E. Pratt-Phillips*, North Carolina State University, Raleigh, NC, USA.

12:00 PM  63  Derivation of a new body condition index to estimate body fat percentage from morphometric measurements: Comparison with body condition score.
S. J. Potter1, P. A. Harris2, S. R. Bailey1*, 1University of Melbourne, Melbourne, Victoria, Australia, 2Waltham Centre for Pet Nutrition, Melton Mowbray, Leicestershire, UK.

12:15 PM  64  Observations on the effects of selenium and molybdenum in mare diets on developmental orthopedic disease in Trakehner foals—A case study.
L. H. Breuer*, D. Langer, L. H. Breuer & Assoc, Alhambra, IL, USA, Wisconsin Equine Clinic and Hospital, Oconomowoc, WI, USA.

Production & Management: General Session (1)
Moderator: TBD
Location: Jasmine (Jacaranda Hall)

ABSTRACT #
11:00 AM  100  Distal forelimb asymmetries in the domestic horse.
S. R. Malone1*, H. M. S. Davies3, 1Morehead State University, Morehead, KY, USA, 2The University of Melbourne, Parkville, VIC, Australia.

11:15 AM  101  Measuring conformation in mules, hinnies, and donkeys (Equus asinus) from Spanish and Portuguese populations.
A. K. McLean*, W. Wang1,2, A. Heartfield1-3, J. B. Rodrigues1,4, 1North Carolina State University, Raleigh, NC, USA, 2Palo Alto Medical Foundation Research Institute, Palo Alto, CA, USA, 3Texas A&M University, College Station, TX, USA, 4University Lusófona de Humanidades e Tecnologias, Lisbon, Portugal.

11:30 AM  102  Comparative efficacy of meloxicam oral suspension and phenylbutazone in horses with chronic musculoskeletal disease.

11:45 AM  103  Efficacy of meloxicam oral suspension in controlling pain and inflammation following castration in horses.
M. E. Olson1, E. E. Fierheller2, L. D. Burwash*, B. J. Ralston1, C. P. Schatz3, H. R. Matheson-Bird1, 1Bow Valley Research, Calgary, Alberta, Canada, 2University of Calgary, Calgary, Alberta, Canada, 3Alberta Agriculture and Rural Development, Airdrie, Alberta, Canada.

12:00 PM  104  Shade use in dry lots by captive wild horses.
K. E. Holcomb*, C. L. Stull, University of California, Davis, Population Health and Reproduction, Cooperative Extension, School of Veterinary Medicine, Davis, CA, USA.

12:15 PM  105  Association between whorls and personality in horses.
N. H. Sereda, T. Kellogg, T. Hoagland, J. Nadeau*, University of Connecticut, Storrs, CT, USA.

Teaching & Extension: General Session (2)
Moderator: TBD
Location: Glades (Jacaranda Hall)

ABSTRACT #
11:00 AM  155  Behavioral changes associated with participation in 4-H horse programs.
L. M. Cottle*, L. Karr-Lilienthal, University of Nebraska-Lincoln, Lincoln, NE, USA.

11:15 AM  156  Use of Soft Chalk technology in equine science classes to provide an interactive study tool.
L. M. Cottle*, K. P. Anderson, L. Karr-Lilienthal, K. Pulec, University of Nebraska-Lincoln, Lincoln, NE, USA.

11:30 AM  157  Delivering an online introductory horse course to a varied audience.
C. D. Skelly*, K. L. Waite, G. A. Shelle, Michigan State University, East Lansing, MI, USA.
Teaching to the masses: Experiences in offering an equine-oriented massive open online course.

Teaching equine courses in the flipped format is proving to be a modern approach to today's classrooms.

A comparison of traditional versus flip-class teaching methods on student satisfaction and assessment.
T. N. Jones*, Tarleton State University, Stephenville, TX, USA.

Invited Speaker Luncheon – Production & Management
Moderator: TBD
Location: Island Ballroom (Tarpon/Sawyer/Long Key)
12:30 PM Buffet Lunch Service begins
1:00 PM Equine Metabolic Syndrome: A complex disease influenced by genetics and the environment.
Molly McCue, University of Minnesota, St. Paul, MN, USA

Exercise Physiology: General Session
Moderator: TBD
Location: Sabal (Jacaranda Hall)

ABSTRACT #
2:15 PM 26 Yearling radiographic forelimb asymmetries and performance in Thoroughbred racehorses.
S. R. Malone*, H. M. S. Davies*, Morehead State University, Morehead, KY, USA, The University of Melbourne, Parkville, VIC, Australia.

2:30 PM 27 An online survey of feed management and electrolyte use in endurance horses in the United Kingdom.
D. J. Marlin*, S. Sadler, Oklahoma State University, Stillwater, OK, USA.

2:45 PM 28 Mitochondrial adaptations to submaximal exercise training in the gluteus medius and triceps brachii of young equine athletes.

Production & Management: General Session (2)
Moderator: TBD
Location: Jasmine (Jacaranda Hall)

ABSTRACT #
2:15 PM 106 Hydration, feed intake, and fecal output in horses fed hay biscuits, blocks, and long stem hay.
C. A. Williams*, L. B. Kenny, H. Anderson, Rutgers, the State University of New Jersey, New Brunswick, NJ, USA, Square Meal Feeds LLC, Cokato, MN, USA.

2:30 PM 107 The effects of feeding order, time of day, and treatment adaptation on rates of hay and concentrate intake.

2:45 PM 108 Effect of pasture sward height on blood glucose and insulin profiles in grazing horses.
P. D. Siciliano*, J. C. Gill, North Carolina State University, Raleigh, NC, USA.

3:00 PM 109 The effect of wearing grazing muzzles for 10 hours daily on bodyweight of ponies pastured for 24 hours per day.
A. C. Longland*, C. Barfoot, P. A. Harris, University of Minnesota, St. Paul, MN, USA, ELNS, Tregaron, Ceredigion, Wales, UK, Mars Horse Care UK Ltd, Old Wolverton, Buckinghamshire, UK, Waltham Centre for Pet Nutrition, Waltham-on-the-Wolds, Leicestershire, UK.

Teaching & Extension: General Session (3)
Moderator: TBD
Location: Glades (Jacaranda Hall)

ABSTRACT #
2:15 PM 161 Gagné and equine anatomy: A pedagogical opportunity.
E. L. Wagner*, Auburn University, Auburn, AL, USA.
Student-oriented learning outlines positively affect student outcomes.
K. S. Jogan* and, J. O. Hammons, University of Arkansas, Fayetteville, AR, USA.

College curricula valued by equine-assisted activity and therapy centers.
S. V. Burk*1, C. E. Gramlich*, Otterbein University, Westerville, OH, USA, 2Slippery Rock University, Slippery Rock, PA, USA.

Factors associated with persistence in the animal and food sciences degree program at the University of Kentucky: From Animal Science 101 to the capstone class.
M. G. Rossano*, S. V. Burk2, A. M. Lead, W. J. Silvia3, A. J. Pescatore3, E. S. Vanzant1, 1University of Kentucky, Lexington, KY, USA, 2Otterbein University, Westerville, OH, USA.

National American Collegiate Horsemen’s Association Convention: an effective equine educational venue.
N. Walker*, J. Leatherwood2, R. Brooks1, C. E. Gramlich2, 1Otterbein University, Westerville, OH, USA, 2Slippery Rock University, Slippery Rock, PA, USA.

POSTER PRESENTATIONS

3:30 – 4:00 PM Refreshment Break
3:30 – 5:00 PM Poster Session #2 (Production & Management, and Teaching & Extension)

Production & Management: Posters
Chair: Janice Holland
Location: Banyan Breezeway

111 Fecal egg count survey of feral horses on the Pryor Mountain Wild Horse Range.
A. N. Neuman*, Rocky Mountain College, Billings, MT, USA.

112 Prevalence of strongyle infection in working equids of Egypt and comparison of 3 deworming strategies.
A. B. A. Ali1,3, M. A. El Sayed2, M. Y. Maatoo3, M. A. Fouad3, C. R. Heleski*, 1Michigan State University, East Lansing, MI, USA, 2The Brooke Hospital for Animals, Cairo, Egypt, 3Cairo University, Giza, Egypt.

113 Effects of collection method and season on fecal egg counts in feral horses.
K. Demme, S. Lapinskas*, M. Webster, D. Baker, J. E. Bruemmer, T. M. Hess, Colorado State University, Fort Collins, CO, USA.

114 Detection of Salmonella in equine facility environmental samples by 2 methods.
A. N. Bradberry*, J. A. Coverdale, L. M. Lucia, G. R. Acuff, C. J. Hartz, 1Texas A&M University, College Station, TX, USA, 2Texas A&M Center for Food Safety, College Station, TX, USA.

115 Turkey grit is a stable, mud-preventing footing for horse turnouts during wet seasons in the Pacific Northwest.
D. M. Sherwood*, B. L. Camozzi, G. Bobe, Oregon State University, Corvallis, OR, USA.

116 The influence of winter turnout design on horse physical fitness.
D. M. Sherwood*, L. T. Comerford, G. Bobe, Oregon State University, Corvallis, OR, USA.

117 Evaluating the relationship between wild stallion social behavior and reaction to sedation.
D. M. Sherwood*, M. A. R. Udell, Oregon State University, Corvallis, OR, USA.

118 Frequency of stress-related behaviors among therapy horses.
E. L. Berg*, K. A. LaFond, North Dakota State University, Fargo, ND, USA.

119 Use of a head elevation and nasopharyngeal flush model for short-term immune distress in horses.

120 Influence of time of day of vaccination on immune response in mature Quarter Horse mares.
D. Seeloff, J. M. Reddish, K. Cole*, The Ohio State University, Columbus, OH, USA.

110 Influence of dietary yeast supplementation on immunoglobulin concentrations in response to vaccination in Quarter Horse mares.
K. Koke, J. M. Reddish, K. Cole*, The Ohio State University, Columbus, OH, USA.
Relationship between bodyweight, body condition score, seasonality, and purpose in equines.
J. Crespo, T. A. Hoagland, J. A. Nadeau*, University of Connecticut, Storrs, CT, USA.

Forage nutritive value, yield, and preference of legumes under horse grazing.

Effect of sward height on grazing preference and pasture NSC concentration.
P. D. Siciliano*, North Carolina State University, Raleigh, NC, USA.

Determining water-soluble phosphorus in equine manure through sequential water extractions.

Long-term administration of dopamine antagonist alters prolactin and ACTH concentrations but has no effect on insulin sensitivity in geldings.
N. Arana-Valencia*, D. L. Thompson, E. L. Oberhaus, Louisiana State University Agricultural Center, Baton Rouge, LA, USA.

Teaching & Extension: Posters
Chair: Mike Yoder
Location: Banyan Breezeway

Abstract #

Developing and operating an equine hay bank.
K. L. Martinson*, C. M. McKenzie, B. C. Colombo, S. L. Bettison, University of Minnesota, St. Paul, MN, USA, Sundown Horse Farm and Shelter, Hugo, MN, USA, Hamline University School of Law, St. Paul, MN, USA, Bettison Consulting LLC, Minnetonka, MN, USA.

Horse health perceptions and related costs in North Dakota.
M. A. Gunkelman*, C. J. Hammer, North Dakota State University, Fargo, ND, USA.

Evaluating the needs of extension agents in regards to Florida’s adult equine program.
C. L. Wickens*, S. M. Hew, University of Florida, Gainesville, FL, USA.

Evaluating knowledge gained through quizzes in an online employer training program for horse industry professionals.
P. M. Auwerda, C. Skelly, G. Shelle, K. Anderson, K. Waite, K. Martinson, Iowa State University, Ames, IA, USA, Michigan State University, East Lansing, MI, USA, University of Nebraska, Lincoln, NE, USA, University of Minnesota, St. Paul, MN, USA.

Novel approach to measuring and developing energy expenditure calculations for horseback riding.
C. L. O’Reilly*, D. H. Sigler, J. D. Fluckey, M. M. Vogelsang, J. E. Sawyer, Texas A&M University, College Station, TX, USA.

Supplementation trial exposes undergraduates to research.

Sport horse handling skills gained through research participation in an equine exercise physiology course.
M. Nicodemus*, L. Hodge, T. Bova, Mississippi State University, Mississippi State, MS, USA.

Recruiting undergraduate equine volunteers.
K. S. Jogan, M. K. Jogan, University of Arkansas, Fayetteville, AR, USA, Albright College, Reading, PA, USA.

Engaging students through scavenger hunt orientation.
K. S. Jogan, M. K. Jogan, University of Arkansas, Fayetteville, AR, USA, Albright College, Reading, PA, USA.

Use of a semester-long assignment to influence student learning of equine body condition scoring.
J. K. Suagee*, K. Bennet-Wimbush, Agricultural Technical Institute, The Ohio State University, Wooster, OH, USA.

Use of protracted “think-pair-share” activity on American Horse Council Welfare Code of Practice.
S. L. Mastellar*, H. K. Carroll, and R. C. Bott, South Dakota State University, Brookings, SD, USA.

Incorporating experiential learning for equine-assisted activities and therapies with an in-house equine therapy program for veterans.
S. A. Newton-Cromwell, B. D. McSpadden, R. Johnson, Middle Tennessee State University, Murfreesboro, TN, USA, United States Department of Veterans Affairs, Murfreesboro, TN, USA.
OTHER ACTIVITIES

ESS General Business Meeting
President: Jason Bruemmer
5:00 – 6:00 PM
Location: Island Ballroom (Tarpon/Sawyer/Long Key)

ESS Awards Banquet
6:30 PM – Cocktails/Cash Bar
7:00 PM – Dinner & Awards
Location: Garden Courtyard (outdoors)